



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/921,711	08/06/2001	Michael Nahum	109942	8769	
25944 7:	590 03/07/2005		EXAM	INER	
OLIFF & BERRIDGE, PLC P.O. BOX 19928			BHATNAGAR, ANAND P		
ALEXANDRIA	= =		ART UNIT	PAPER NUMBER	
	•		2623		
			DATE MAILED: 03/07/2009	ς.	

Please find below and/or attached an Office communication concerning this application or proceeding.

		A	pplication No.	Applicant(s)				
			09/921,711	NAHUM, MICHAEL	-			
	Office Action Summary	E	xaminer	Art Unit				
			nand Bhatnagar	2623				
Period fo	 The MAILING DATE of this communic or Reply 	ation appea	rs on the cover sheet w	ith the correspondence add	dress			
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIC nsions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) period for reply is specified above, the maximum stature to reply within the set or extended period for reply we reply received by the Office later than three months after the part of the provision of	CATION. f 37 CFR 1.136(a nication. days, a reply wit utory period will a ill, by statute, car	a). In no event, however, may a hin the statutory minimum of thi apply and will expire SIX (6) MOI use the application to become A	reply be timely filed ty (30) days will be considered timely. THS from the mailing date of this col BANDONED (35 U.S.C. & 133)	mmunication.			
Status								
1) 又	Responsive to communication(s) filed	on <i>10/15/0</i>	4					
3)								
,—	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4)⊠	☑ Claim(s) <u>1-29</u> is/are pending in the application.							
	4a) Of the above claim(s) <u>28 and 29</u> is/are withdrawn from consideration.							
)⊠ Claim(s) <u>1-26</u> is/are allowed.)⊠ Claim(s) <u>27</u> is/are rejected.							
6)⊠								
7)	Claim(s) is/are objected to.							
8)[Claim(s) are subject to restriction	on and/or el	ection requirement.					
Applicati	on Papers							
9)[The specification is objected to by the	Examiner.						
) ☐ The drawing(s) filed on <u>06 August 2001</u> is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
	Applicant may not request that any objecti							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected to t							
Priority ι	ınder 35 U.S.C. § 119							
	Acknowledgment is made of a claim fo All b) Some * c) None of: 1. Certified copies of the priority do 2. Certified copies of the priority do	ocuments ha	ave been received.					
	3. Copies of the certified copies of				Stage			
	application from the International			received in this National S	stage			
* S	see the attached detailed Office action		, , , ,	received.				
			·					
Attachmen	` '		_					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTC	2 040		Summary (PTO-413) s)/Mail Date				
	e of Dransperson's Patent Drawing Review (PTC nation Disclosure Statement(s) (PTC-1449 or PT			nformal Patent Application (PTO-	152)			
	No(s)/Mail Date	,	6) Other:					

Application/Control Number: 09/921,711

Art Unit: 2623

Election/Restrictions

1. Applicant's election with traverse of claims 1-29 in the reply filed on 10/15/05 is acknowledged. The traversal is on the ground(s) that the search and examination of the entire application could be made without serious burden. This is not found persuasive because as explained in the restriction, filed on 09/22/04, that two groups exist wherein Group I (claims 1-27), a combination group, and Group II (claims 28 and 29), a subcombination group since the combination does not require particulars of the subcombination. Specifically the features of "the signal generating and processing circuitry element analyzes values of at least some of the first set of correlation function value points to determine at least a smear magnitude for the analyzed smeared one of the first and second images" and "the signal generating and processing circuitry element, based on the first and second images, obtains correlation function values for at least one of a second set of correlation function value points, the correlation function value points of the second set selected based on the determined at least smear magnitude, the second set of correlation function value points distributed within at least one potential peak portion of the correlation function of the first image relative to the second image" are not required by the combination. The requirement is still deemed proper and is therefore made FINAL.

Page 2

DETAILED ACTION

Specification

2. The attempt to incorporate subject matter into this application by reference to application 09/584,264, 09/731,671, and 09/860,636 (pages 2 and 4 of the specifications) is improper because only U.S. patents and allowed applications, with issue fee paid, can be incorporated by reference and not application numbers. Appropriate correction is required.

Claim Rejections - 35 USC § 101

 Claim 27 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

A "carrier wave encoded to transmit" is non-statutory subject matter because this is abstract idea and does not produce a "useful, concrete and tangible result" until it is couple to a physical structure.

Allowable Subject Matter

- 4. Claims 1-26 are allowed.
- 5. The following is a statement of reasons for the indication of allowable subject matter: The closest prior art of Iwaki et al. (U.S. patent 5,619,596) discloses to perform image correlation of an input image compared to a reference image and determining the correlation ratios. Takemori et al. (U.S. patent 4,967,093) teaches to perform image correlation on displaced speckle

Art Unit: 2623

images to determine the amount of deformation of an object. Takemori et al. further discloses to perform auto-correlation to determine object deformation. Neither lwaki et al. nor Takemori et al. teaches, regarding claims 1 and 26, the feature of "comparing one of the at least one smeared image to itself at a first plurality of offset positions, the first plurality of offset positions corresponding to a first set of correlation function value points of an auto-correlation function that are distributed around a zero-offset position of that smeared image relative to itself; analyzing values of the plurality of correlation function value points of the first set to identify at least one width value for a peak portion of the auto-correlation function for the smeared image," that in combination with the other respective claim limitations.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Parker et al. (U.S. patent 5,453,840) for performing image correlation to align sensors.

Contact Information

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anand Bhatnagar whose telephone number is (703) 306-5914, whose supervisor is Amelia Au whose number is 703-308-6604,

Art Unit: 2623

group fax is 703-872-9306, and Tech center 2600 customer service office number is 703-306-0377.

SAMIR AHMED PRIMARY EXAMINER

Anand Bhatnagar

Art Unit 2623

March 5, 2005